

What is claimed is:

Sub
ar

1. A spring cushion assembly comprising a plurality of spring coils aligned with one another in parallel linear spring coil rows and parallel linear spring coil columns perpendicular to the spring coil rows, each spring coil being of a configuration producing a tendency to incline laterally when compressed, each spring coil row and each spring coil column comprising spring coils oriented relative to one another to incline in opposing directions for counteracting the tendency of the spring coils to incline.

2. A spring cushion assembly according to claim 1, wherein the plurality of spring coils comprises a sub-plurality of right-hand spring coils and a sub-plurality of left-hand spring coils.

3. A spring cushion assembly according to claim 1, wherein, within each spring coil row and within each spring coil column, alternating spring coils are oriented to incline in a first direction and intervening spring coils are oriented to incline in a second direction in opposition to the first direction.

4. A spring cushion assembly according to claim 3, wherein the alternating and intervening spring coils are of opposing hands.

5. A spring cushion assembly according to claim 1, wherein each spring coil is of a configuration producing a tendency to rotate when compressed, each spring coil row and each spring coil column comprising spring coils oriented relative to one another to rotate in opposing directions for counteracting the tendency of the spring coils to rotate.

6. A spring cushion assembly according to claim 5, wherein, within each spring coil row and within each spring coil column, alternating spring coils are oriented to rotate in a first direction and intervening spring coils are oriented to rotate in a second direction in opposition to the first direction.

7. A spring cushion assembly according to claim 6, wherein the alternating and intervening spring coils are of opposing hands.

8. A spring cushion assembly according to claim 1, wherein at least selected ones of the spring coils comprise open end turns.

9. A spring cushion assembly according to claim 8, wherein the selected spring coils comprise open upper and lower end turns.

10. A spring cushion assembly according to claim 9, wherein each of the selected spring coils comprises a full number of coil turns between the open upper and lower end turns.

11. A spring cushion assembly according to claim 10, wherein each spring coil comprises an open upper end turn and an open lower end turn.

¹¹
~~12~~. A spring cushion assembly according to claim ~~12~~¹⁰, wherein each spring coil comprises a full number of coil turns between the open upper and lower end turns.

¹²
~~13~~. A spring cushion assembly according to claim 1, further comprising a perimeter border wire disposed outwardly about the plurality of spring coils and connected to selected ones thereof, and a plurality of connector wires extending between selected adjacent rows or selected adjacent columns and connected to the spring coils thereof for integrating the pluralities of spring coils together.

¹³
~~14~~. A spring cushion assembly according to claim ~~13~~¹², wherein each spring coil comprises an upper end turn and a lower end turn, the upper end turns of the plurality of spring coils being essentially co-planar with one another and the lower end turns of the plurality of spring coils being essentially co-planar with one another, and further comprising upper and lower perimeter border wires respectively disposed outwardly about and connected to selected ones of the co-planar upper and lower end turns of the plurality of spring coils, and upper and lower connector wires extending between selected adjacent rows or selected adjacent columns and connected respectively to the upper and lower end turns of the spring coils thereof.

¹⁴
~~15~~. A spring cushion assembly according to claim ~~13~~¹² or ~~14~~¹³, wherein the connector wires are helical.

¹⁵
~~16~~. A spring cushion assembly according to claim ~~14~~¹³, wherein the upper and lower end turns are open and each of the spring coils comprises a full number of coil turns between the open upper and lower end turns thereof.

¹⁶
~~17~~. A spring cushion assembly according to claim ~~13~~¹², ~~14~~¹³ or ~~16~~¹⁵, wherein the spring cushion assembly is a mattress spring assembly.

*add
a3*